## INTERNATIONAL SEARCH REPORT

Internal Application No PCT/FR2004/000137

			10171120	<del></del>						
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B65H54/28 B65H67/048										
According to International Patent Classification (IPC) or to both national classification and IPC										
B. FIELDS	SEARCHED .									
Minimum do IPC 7	cumentation searched (classification system followed by classificat B65H	ion symbols)								
Documentat	lon searched other than minimum documentation to the extent that	such documents are incli	uded in the fields so	aarched						
	ata base consulted during the International search (name of data be	ase and, where practical	l, search terms used							
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT									
Category *	Citation of document, with indication, where appropriate, of the re	elevant passages		Relevant to claim No.						
X	US 4 431 138 A (H. SCHIMINSKI) 14 February 1984 (1984-02-14) column 4, line 49 - column 5, li	1,4,9								
х	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 02, 31 March 1995 (1995-03-31) -& JP 06 329437 A (SHIMADZU CORP 01), 29 November 1994 (1994-11-2) abstract; figures	1,7-9								
χ .	US 5 526 995 A (H. WESTRICH) 18 June 1996 (1996-06-18) column 3, line 43 - line 55 column 4, line 8 - line 20 claim 1; figures			1,5,9						
		-/								
X Furth	er documents are listed in the continuation of box C.	X Patent family r	nembers are listed i	n annex.						
• Special cal	egories of cited documents :	*T* later document out	lished after the linte	mational filling date						
*A' document defining the general state of the art which is not considered to be of particular relevance  *A' document defining the general state of the art which is not considered to be of particular relevance  *A' document defining the general state of the art which is not cited to understand the principle or theory underlying the invention										
*E* earlier document but published on or after the international filing date  *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to										
which i	nt which may throw doubts on priority claim(s) or s clied to establish the publication date of another	involve an inventi- "Y" document of particu-	•	cument is taken alone lalmed invention						
citation or other special reason (as specified)  Cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with t										
"P" docume later th	is to a person skilled family									
Dale of the a	actual completion of the international search	Date of mailing of t	he international sea	rch report						
10	5 June 2004	25/06/2	004							
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer								
	NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lemmen,	R							

Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

Internal Application No PC1/FR2004/000137

		PCT/FR2004/000137		
C.(Continue	tion) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 3 090 570 A (C.R. CUNNINGHAM ET AL.) 21 May 1963 (1963-05-21) column 4, line 55 - column 5, line 41 column 9, line 63 - line 74 column 14, line 5 - line 26; claims 1,16; figures	1,3		
X	US 5 156 347 A (F. GAY II ET AL) 20 October 1992 (1992-10-20) column 11, line 39 - column 13, line 40; figures 3,8	1,2		
A	FR 1 246 431 A (PITTSBURG PLATE GLASS COMPANY) 18 November 1960 (1960-11-18) page 2, right-hand column, line 20 - line 41 page 3, right-hand column, line 5 - line 26; figures 1,2	1-4,6, 10,11		
A	US 4 065 065 A (J. KALLENBORN) 27 December 1977 (1977-12-27) claims 6,17,18; figures 2,3	1,2,4		
A	US 2 932 461 A (N.P. KIMBERLY) 12 April 1960 (1960-04-12) claim 1; figures	1,2		
A	US 4 054 249 A (J. P. KLINK ET AL.) 18 October 1977 (1977-10-18)			



Internal Application No PCT/FR2004/000137

mormanou on barair rainth mailteas

Patent document		Publication		Patent family	Publication
cited in search report		date		member(s)	date
US 4431138	Α	14-02-1984	СН	656865 A5	31-07-1986
			DE	3211603 A1	18-11-1982
			GB	2096188 A ,B	13-10-1982
			IT	1151367 B	17-12-1986
			US	4474337 A	02-10-1984
JP 06329437	A	29-11-1994	JP	2787268 B2	13-08-1998
US 5526995	Α	18-06-1996	CN	1085183 A ,B	13-04-1994
			WO	9317949 A1	16-09-1993
			DE	59301242 D1	08-02-1996
			EP	0583469 Al	23-02-1994
			JP	3288377 B2	04-06-2002
			JP	6507368 T	25-08-1994
			KR	134112 B1	21-04-1998
			RU	2078734 C1	10-05-1997
US 3090570	A	21-05-1963	AT	241013 B	25-06-1965
			CH	384788 A	26-02-1965
			FR	1246442 A	18-11-1960
			GB	902584 A	01-08-1962
			NL	121452 C	•
			NL	246861 A	
			SE	306036 B	11-11-1968
US 5156347	Α	20-10-1992	US	4893761 A	16-01-1990
			EP	0386164 A1	12-09-1990
			MO	8909178 A1	05-10-1989
FR 1246431	Α	18-11-1960	US	3041663 A	03-07-1962
			บร 	3041664 A	03-07-1962
US 4065065	Α	27-12-1977	NONE		
US 2932461	A	12-04-1960	NONE		
US 4054249	Α	18-10-1977	AU	501788 B2	28-06-1979
			AU	1460676 A	08-12-1977
			BR	7604098 A	26-07-1977
			CA	1027915 A1	14-03-1978
			DE	2627947 A1	13-01-1977
			DK	287876 A	27-12-1976
			FI	761857 A ,B,	27-12-1976
			FR	2317384 A1	04-02-1977
			GB	1554143 A	17-10-1979
			GB	1554141 A	17-10-1979
			IT	1079539 B	13-05-1985
			JP	1107395 C	30-07-1982
			JP	52005309 A	17-01-1977
			JP	56052827 B	15-12-1981
			NL	7607024 A	28-12-1976
			NO	762216 A ,B,	28-12-1976
				437818 B	18-03-1985
			SE	43/010 0	27-12-1976